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SOURCE Automobil', No 9,

50X1-HUM

A 2.5-TON CRANE MOUNTED ON A THREE-AXLE TRUCK

A. Zhuravel'

The author has designed and built a 2.5-ton-capacity crane and mounted it on a 6-by-6 Studebaker truck, stripped aft of the cab and having a heavy channel-beam frame running from the cab to the rear.

The boom is mounted midway between the two rear axles, its feet spread to the frame, where an axle passes through them and a pair of gussets, serving as pivotal points. The boom is held in any one of five working positions by a strip-steel member secured to it and fixed to a prismatic frame about the height of the cab, mounted forward of the rear wheels. The strip-steel member is secured to the frame by a pin which passes through one of five regularly spaced holes in the member.

Directly beneath the prismatic frame is the winch, moved from its forward position and mounted there on angle brackets. The hoist cable is run through one pulley on the frame and two on the boom. With the lift hook flush against the end of the boom, the winch can hoist or lower the boom itself so that it may be fixed in one of its five positions of varied height and range. The winch is controlled from inside the cab.

The front bumper has been reinforced with a channel beam and a 300-kilogram counterweight mounted on it.

It is recommended that those Studebaker trucks which are still in operating condition be equipped as outlined above to serve as mobile cranes.

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